



Notice of Allowability

Application No.

09/661,899

Examiner

Alonzo Chambliss

Applicant(s)

MU ET AL.

Art Unit

2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE and amendment D both filed on 6/26/02.
2. ☒ The allowed claim(s) is/are 10-33.
3. ☒ The drawings filed on 07 October 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☒ to Paper No./Mail Date 6.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Alonzo Chambliss
Primary Examiner
Art Unit: 2827

Art Unit:

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 6/26/02 has been entered.

Drawings

2. The formal drawings filed on 10/7/02 were not attached matched with the application file. New formal drawings are required base on the objection in the draftperson's drawing review in Paper no. 6.

Allowable Subject Matter

3. The following is a statement of reasons for the indication of allowance subject matter: the prior art of record does not teach or suggest the combination of a first encapsulated die assembly including a die with an active surface and having a first packaging material adjacent to the side of the die. The first packaging material comprises a first microelectronic package core and a first encapsulation material, wherein the encapsulation material has a portion that is on the back surface of the first die assembly. The second die assembly including

Art Unit:

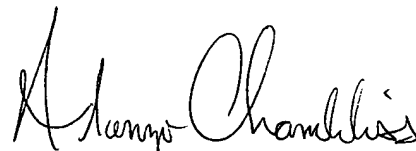
a second die with an active surface and a second packaging material adjacent to the side of the second die. Attaching the first die assembly back surface to the back surface of the second die assembly in claims 10 and 23.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning the communication or earlier communications from the examiner should be directed to Alonzo Chambliss whose telephone number is (703) 306-9143. The fax phone number for the Group is (703) 308-772 or 7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 308-7956.

AC/April 2, 2004

A handwritten signature in black ink, appearing to read "Alonzo Chambliss", written in a cursive style.

Alonzo Chambliss
Primary Patent Examiner
Art Unit 2827

92

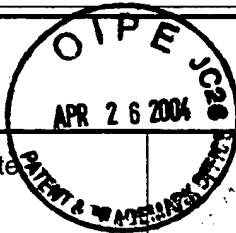
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2827

TRANSMITTAL LETTER
(General - Patent Pending)

Docket No.
unknown

In Re Application Of: X. Mu



Serial No.
09/661,899

Filing Date
9-14-00

Examiner
A. Chambliss

Group Art Unit
2827

Title: **PROCESS FOR FORMING A DIRECT BUILD-UP LAYER ON AN ENCAPSULATED DIE PACKAGES UTILIZING INTERMEDIATE STRUCTURES**

TO THE COMMISSIONER FOR PATENTS:

Transmitted herewith is:

- 1 Communication
- 1 postcard + copy
- 1 transmittal letter
- 1 Notice of Allowance with 1 Notice of Allowability

in the above identified application.

- ☒ No additional fee is required.
- ☐ A check in the amount of _____ is attached.
- ☐ The Director is hereby authorized to charge and credit Deposit Account No. _____ as described below.
 - ☐ Charge the amount of _____
 - ☐ Credit any overpayment.
 - ☐ Charge any additional fee required.

Signature

Dated: 4-26-04

Michael E. Whitham
Reg. # 32,635
Whitham, Curtis & Christofferson P.C.
11491 Sunset Hills Road
Suite 340
Reston, Va. 20190
703-787-9400
Customer # 30743

I certify that this document and fee is being deposited on _____ with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature of Person Mailing Correspondence

Typed or Printed Name of Person Mailing Correspondence

CC:



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

X. MU

Serial No.: 09/661,899

Group Art Unit: 2827

Filed: September 14, 2000

Examiner: A. Chambliss

For: PROCESS FOR FORMING A DIRECT BUILD-UP LAYER ON AN
ENCAPSULATED DIE PACKAGES UTILIZING INTERMEDIATE
STRUCTURES

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

COMMUNICATION

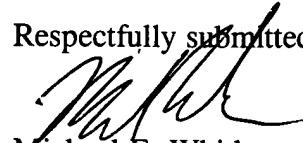
Sir:

A Notice of Allowance and Fee(s) Due together with a Notice of Allowability and the Examiner's Statement for Reasons for Allowance was mailed April 5, 2004, in the above-identified application. After extensively checking our docketing system and discussions with Ms. Wynette Stapor of the U.S. Patent and Trademark Office Publication Department, it has been determined that the Notices were mailed to us **incorrectly**. The undersigned is not attorney of record in this case. The customer number allotted to the above-identified application is the correct customer number for the undersigned but has been assigned to this application incorrectly.

Therefore, it is respectfully requested that our customer number and address be removed from the case record and the Action re-mailed to the correct attorneys of record for this application.

If at any time, it is deemed by the Examiner that this action was, in fact, correctly mailed, please contact the undersigned immediately.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'M. Whitham', is written over the text 'Respectfully submitted,'.

Michael E. Whitham

Reg. No.: 32,635

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